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***A NEW FINE ADJUSTMENT.***

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In Fig. 1, Nos. 1, 2, 3 represent the milled-head, pinion-axis and pinion of the ordinary method of coarse-adjustment. The milled-head (1) is countersunk on its inner side, and the small wheel (4) is made to fit into the countersunk space, the inner surface of 1 and of the wheel 4 being perfectly smooth

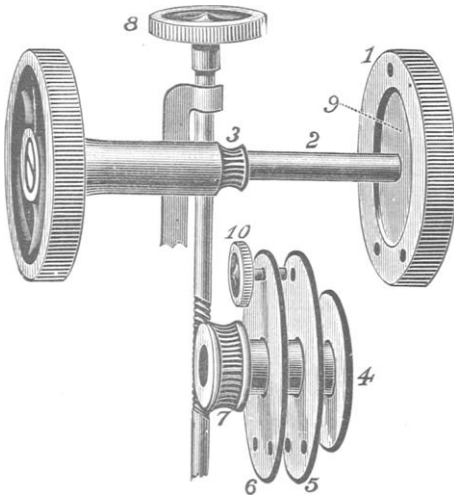


Fig. 1.

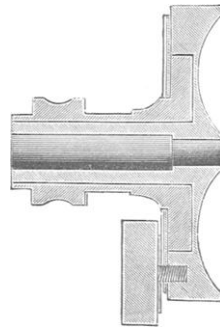


Fig. 2.

and flat. Attached to 4 is the socket and pinion (7), all of which are fitted over the pinion-axis (2) between the pinion (3) and milled head (1). A leather washer (5) is made to rest closely against the inner surfaces of 1 and 4. It is held in position by another washer of metal (6), which, by means of two screws passing through it and 5, is made fast to the

milled head. A small tension wheel (10) has a screw passing through both washers, also binding them to 1, and when desired locking the coarse-adjustment and making the whole combination practically one wheel. When the coarse-adjustment is used the spindle (8) holds 7, 6, 5, 4, so that they cannot revolve with the pinion.

When the fine-adjustment is required the friction of the leather washer makes the whole combination practically one wheel, which is turned by means of the milled head (8), giving the entire range of the coarse-adjustment. Both adjustments are always ready for use except when the coarse one is purposely locked to prevent accidents. All wear is taken up by the spring, as shown in the illustration.

The entire combination in its proper position is shown in Fig. 2.